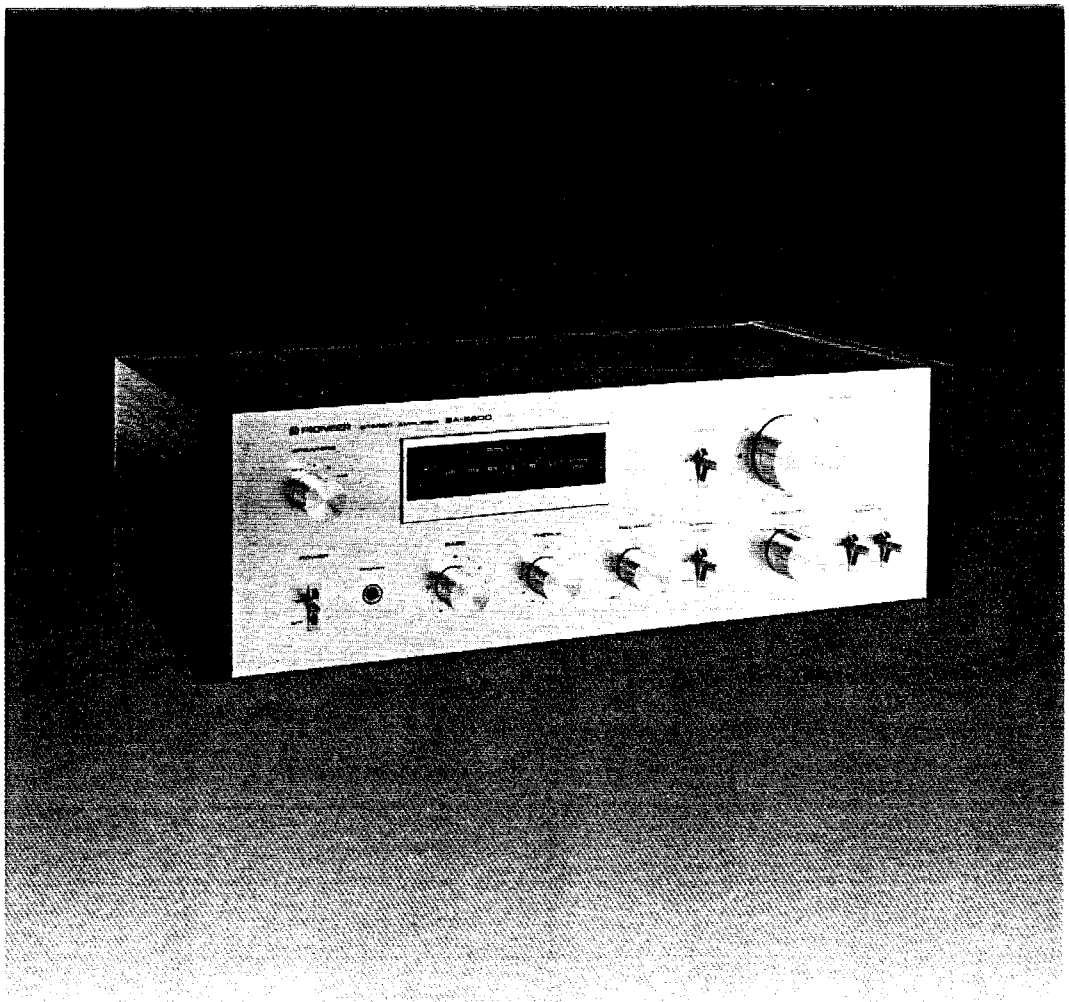

In this photo you can see Model SA-5800

Service Manual

STEREO AMPLIFIER

SA-5800
SA-508

PIONEER®

Both Model SA-5800 and Model SA-508 have the same basic performance. The major difference is in appearance, Model SA-5800 being fitted with wooden side cover and top cover, while Model SA-508 employs metal cover. The following table is displayed on the SA-5800 and SA-508.

MODEL SA-5800

Type	Voltage	Remarks
KU	120V only	U.S.A. model
KC	120V only	Canada model

MODEL SA-508

Type	Voltage	Remarks
KU	120V only	U.S.A. model
S	110V, 120V, 220V, and 240V (Switchable)	General export model
HE	220V and 240V	Europe model
HB	220V and 240V	United Kingdom model
HP	220V and 240V	Oceania model

- This service manual is applicable to the KU type of the Model SA-5800 and the Model SA-508. When repairing the KC type of the Model SA-5800 and the S type of the Model SA-508, please see the additional service manual (ART-373), and for HE, HB, HP types of the SA-508, please see the additional service manual (ART-374).

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1. SPECIFICATIONS

Semiconductors

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Amplifier Section

Continuous Power Output of 25 watts* per channel, min., at 8 ohms from 20 Hertz to 20,000 Hertz with no more than 0.03 % total harmonic distortion or 25 watts per channel at 4 ohms from 20 Hertz to 20,000 Hertz with no more than 0.05% total harmonic distortion.

Total Harmonic Distortion (20 Hertz to 20,000 Hertz, 8 ohms, from AUX)
continuous rated power output . . No more than 0.03%
12.5 watts per channel power output
. . . . . No more than 0.03%
1 watt per channel power output
. . . . . No more than 0.03%
Intermodulation Distortion (50 Hertz: 7,000 Hertz = 4:1, 8 ohms, from AUX)
continuous rated power output . . No more than 0.03%
12.5 watts per channel power output
. . . . . No more than 0.03%
1 watt per channel power output
. . . . . No more than 0.03%
Output
Speaker . . . . . A, B, A+B
4~16 ohms
Headphones . . . . . Low impedance
Damping Factor (1,000 Hertz, 8 ohms) 30
Input (Sensitivity/Impedance)
PHONO 2.5mV/47kilohms
TUNER 150mV/50kilohms
AUX 150mV/50kilohms
TAPE PLAY 1 . . . . . 150mV/50kilohms
TAPE PLAY 2 . . . . . 150mV/50kilohms
Phono Overload Level (T.H.D. 0.1% 1,000Hz)
PHONO 140mV
Output
TAPE REC 1 . . . . . 150mV
TAPE REC 2 . . . . . 150mV
Frequency Response
PHONO (RIAA Equalization)
. . . . . 30Hz to 15,000Hz ±0.5dB
TUNER, AUX, TAPE PLAY
. . . . . 20Hz to 40,000Hz ±2dB
Tone Control
BASS . . . . . +7,5dB, – 7.5dB (100Hz)
TREBLE . . . . . +8dB, –8dB (10kHz)
Subsonic Filter . . . . . 15Hz (–6dB/oct)
Loudness Contour (Volume control set at –40dB position) . . . . . +6dB (100Hz)
Hum and Noise (IHF, short-circuited, A network)
PHONO 76dB
TUNER, AUX, TAPE PLAY 98dB

Miscellaneous

Power Requirements 120V, 60Hz
Power Consumption . . . . . 75W (UL), 180W (CSA)
Dimensions . . . . . 451(W) x 151(H) x 271(D)mm
17-3/4(W) x 5-15/16(H) x 10-11/16(D) in
Weight (without package) 7.3kg (16lb 2oz)

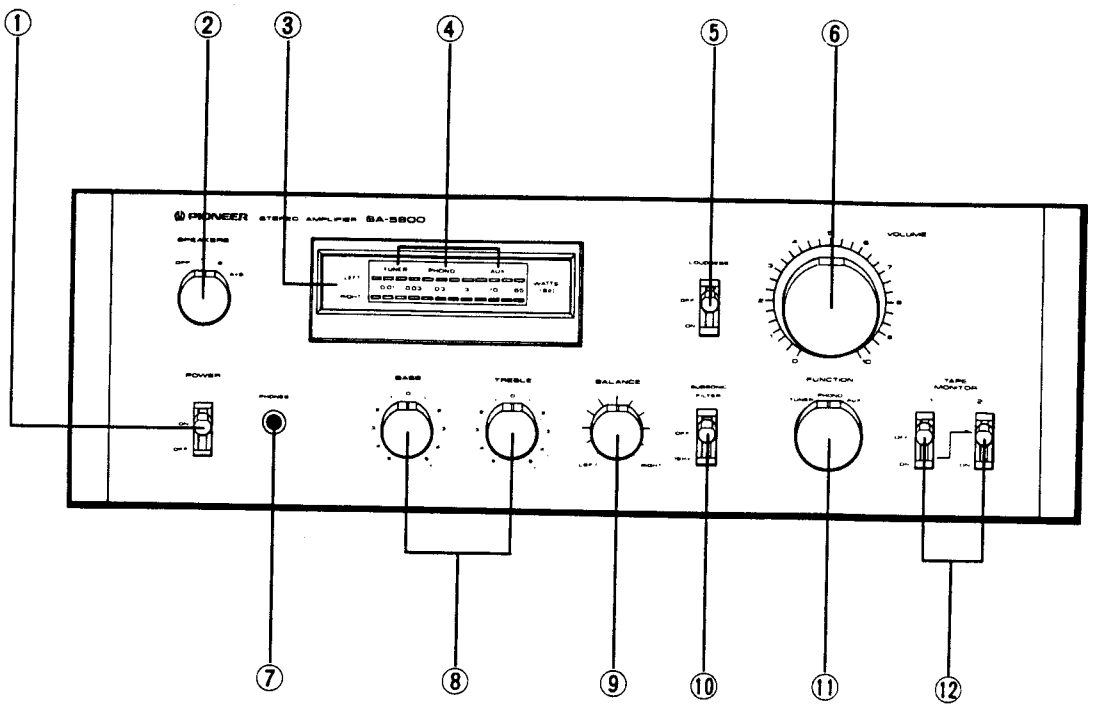
Furnished parts

Operating instructions 1

* *Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

NOTE:
Specifications and the design subject to possible modification without notice due to improvements.

2. FRONT PANEL FACILITIES



① POWER SWITCH

Set this switch to ON to supply power to the amplifier.

② SPEAKER SELECTOR

Use this selector to select the speaker systems.

OFF: Sound not obtained from speakers.

A: Sound obtained from speakers connected to the A speaker terminals.

B: Sound obtained from speakers connected to the B speaker terminals.

A+B: Sound obtained from speakers connected to both A and B speaker terminals.

③ POWER METER

This meter allows you to read out the rated power level on the fluorescent display tube when speakers with a nominal impedance of 8 ohms are connected to the amplifier's speaker terminals.

④ FUNCTION INDICATORS

The TUNER, PHONO, AUX function indicators light up in accordance with the position of the function selector.

NOTE:
The function indicator will not go off even when the tape monitor switch 1 or 2 is set to ON.

⑤ LOUDNESS SWITCH

When listening to a performance with the volume control turned down, set this switch to ON and the bass will be accentuated.

When the volume is low, the human ear finds it harder to hear the bass than when the volume is high. The loudness switch is thus designed to compensate for this deficiency. By setting it to ON, the bass comes through much more strongly and the sound takes on a punch even when the volume control is turned down.

⑥ VOLUME CONTROL

Use this control to adjust the output level to the speakers and headphones. Turn it clockwise to increase the output level. No sound will be heard if you set it to "0".

⑦ HEADPHONE JACK

Plug the headphones into this jack when you want to listen through your stereo headphones.

NOTE:
Set the speaker selector to OFF when listening only with headphones.

⑧ BASS AND TREBLE CONTROLS

Use these controls to adjust the bass and the treble. If you turn the bass control to the right from its center position, you will be able to emphasize the sound in the low-frequency range. Conversely, turning this control left from the center position, you will attenuate the sound.
You can use the treble control to adjust the sound in the high-frequency range.

⑨ BALANCE CONTROL

Use this control to balance the volume of the left and right channels. If the sound appears to be louder on the right, it means that the volume of the right channel is higher. Turn the balance control to the left and adjust.
Conversely, if the sound appears to be louder on the left, it means that the volume of the left channel is higher. Therefore, turn the balance control to the right and adjust.

⑩ SUBSONIC FILTER SWITCH

When this switch is set to the 15Hz position, the subsonic filter with a cut-off frequency of 15Hz is actuated. The subsonic filter serves to attenuate frequencies lower than 15Hz in a 6dB/oct slope. It is therefore effective in suppressing ultra-low-frequency noise which is generated by record warp and other causes. You cannot actually hear this noise but it is a factor in the generation of intermodulation distortion and it may damage your speaker system. Set this switch to the 15Hz position during record play for the best effect.

⑪ FUNCTION SELECTOR

Use this selector to select the program source. When set, the function indicator above the meter panel corresponding to the position of the function selector will light up.

TUNER: Set here when listening to broadcasts on a tuner connected to the TUNER jacks. (The TUNER function indicator lights up.)

PHONO: Set here when playing records on a turntable connected to the PHONO jacks. (The PHONO function indicator lights up.)

AUX: Set here when listening to a program source which is connected to the AUX jacks.
(The AUX function indicator lights up.)

⑫ TAPE MONITOR SWITCHES (1, 2)

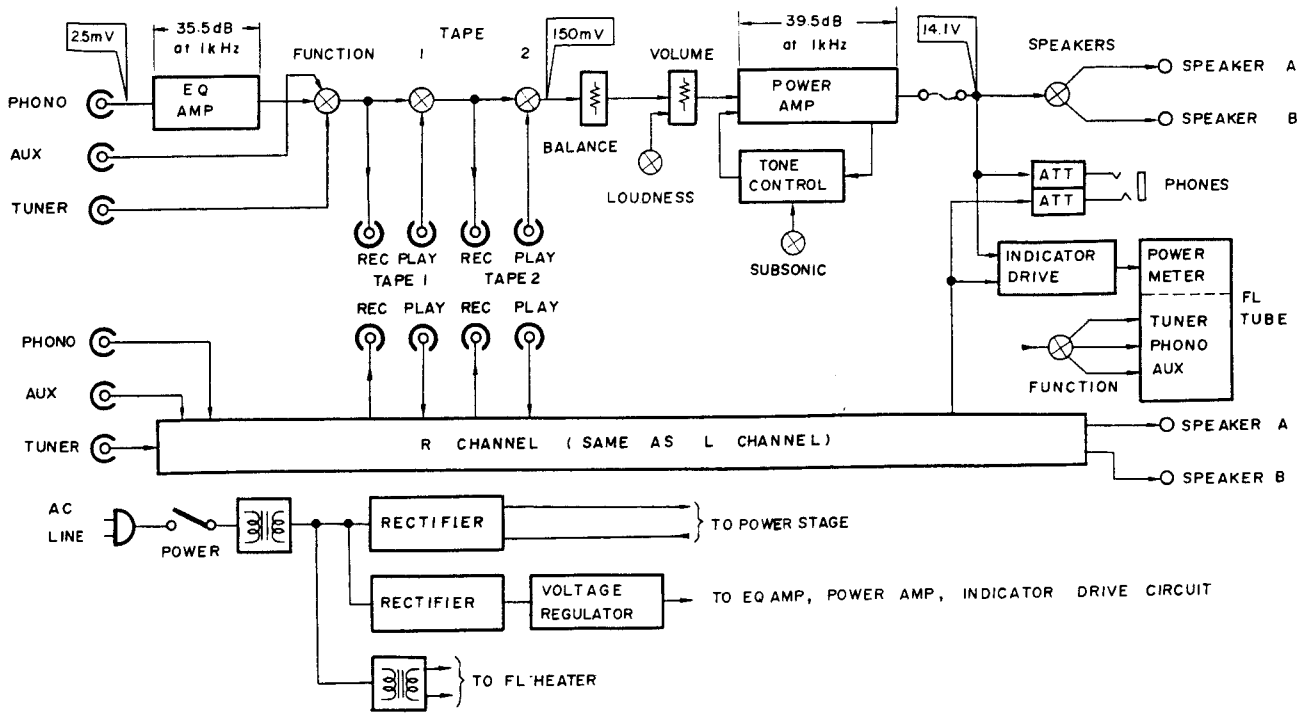
Use these switches to monitor recording or a tape being played back on a tape deck.

1: Set this switch to ON when you want to monitor a recording or a tape being played back on a tape deck which is connected to the TAPE 1 jacks.

2: Set this switch to ON when you want to monitor a recording or a tape being played back on a tape deck which is connected to the TAPE 2 jacks.

NOTE:
Set these switches to the upper (OFF) position when playing records or listening to broadcasts.

3. BLOCK DIAGRAM



4. CIRCUIT DESCRIPTIONS

Equalizer Amplifier

The equalizer amplifier is collector-to-emitter feed back type 2-stage direct-coupled amplifier, designed with a gain of 35.5dB (at 1kHz), a overload level of 140mV (at 1kHz, THD 0.1%), and equalizer deviation of ±0.5dB (30Hz-15kHz).

Power Amplifier

This all-stage direct-coupled pure complementary SEPP circuit features a current mirror load differential amplifier in the first stage, and incorporates the tone control circuits in the NFB loop.

Although the incorporation of the tone control circuits in the power amplifier stage reduces the number of elements that the signal has to pass through, and thereby further reduces noise, distortion, and cost, the power stage does require a higher gain and a higher degree of stability. In the SA-5800, this high gain and high stability are achieved by a current mirror load differential amplifier in the first stage and by the use of a bootstrap circuit for the load of the pre-driver stage.

The power stage is a Darlington connection pure complementary SEPP circuit, resulting in an output power rating of 25W+25W (8Ω, 20Hz-20kHz, THD 0.03%).

The tone controls (BASS, TREBLE) are operated by changing the frequency response of the power amplifier NFB circuit.

Power Supply Muting

This circuit is designed to eliminate the unwanted click noise generated when the power switch is turned on and off.

With reference to Fig. 4-1, when the power switch is turned on, Q_3 will remain off because of $-B_1$, and then Q_1 emitter will become −0.6V through the minus voltage supply route (D_1, D_3, and R_{16}). The Q_1 base voltage will increase, the rate of increase being determined by the R_2, R_3,

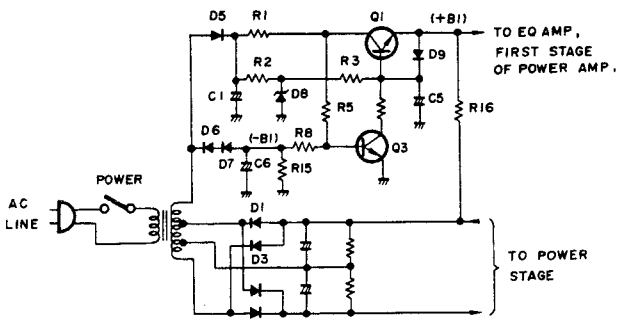


Fig. 4-1 Power supply and muting circuit

and C_5 time constant. Consequently, Q_1 emitter voltage will rise by increase of the base voltage. Therefore, the muting action when the power switch is turned on is achieved by delaying the supply of the $+B_1$ to the equalizer amplifier and the first stage of the power amplifier.

When the power switch is turned off, the $-B_1$ is discharged through the route $R_{15} \rightarrow C_6$, and since the residual voltage of C_1 is then applied to the base of Q_3 through R_1 and R_5, Q_3 is immediately turned on. Therefore, the base voltage of the Q_1 drops to 0V, and the $+B_1$ supply to the equalizer amplifier and the first stage of the power amplifier are interrupted.

Indicator Circuit

The SA-5800 output power and function indicators feature fluorescent indicator tube (FL tube). In this tube, thermionic emissions from the cathode are accelerated into the fluorescent substance of the segmental anodes, resulting in the emission of light. This tube is used to indicate numerals, letters, and other symbols.

An outline of the FL tube drive circuit is shown in Fig. 4-2. The output circuit signal is applied to pin no. 6 (4) of the IC (TA7318P-A). The IC contains a detector circuit, compressor (40dB), and peak hold circuit for both left and right channels. The dynamic range of the signal is thus contracted by 40dB to obtain a "peak held" DC voltage.

The output power indicator segments of the FL tube are driven by the HA12010 ICs (one for each channel) equipped with 12 pairs of differential amplifiers. These amplifiers are biased at increasing levels, so each amplifier will commence to operate separately as the input level increases. And since these amplifiers apply the voltages to the output power indicator segments, each successive segment will light up in turn as the input level rises.

The function indicators are lit up as a result of a voltage being applied to the corresponding function indicator segment according to the selected positions of the FUNCTION switch.

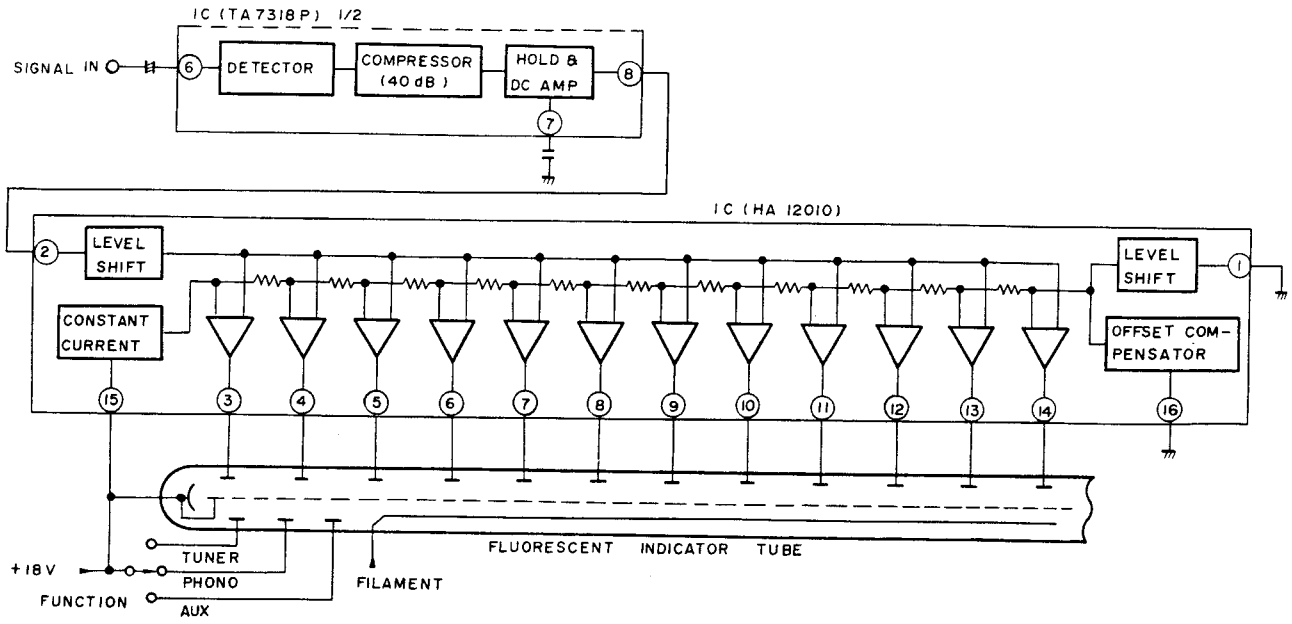


Fig. 4-2 Indicator circuit

5. DISASSEMBLY

Side Covers and Top Cover

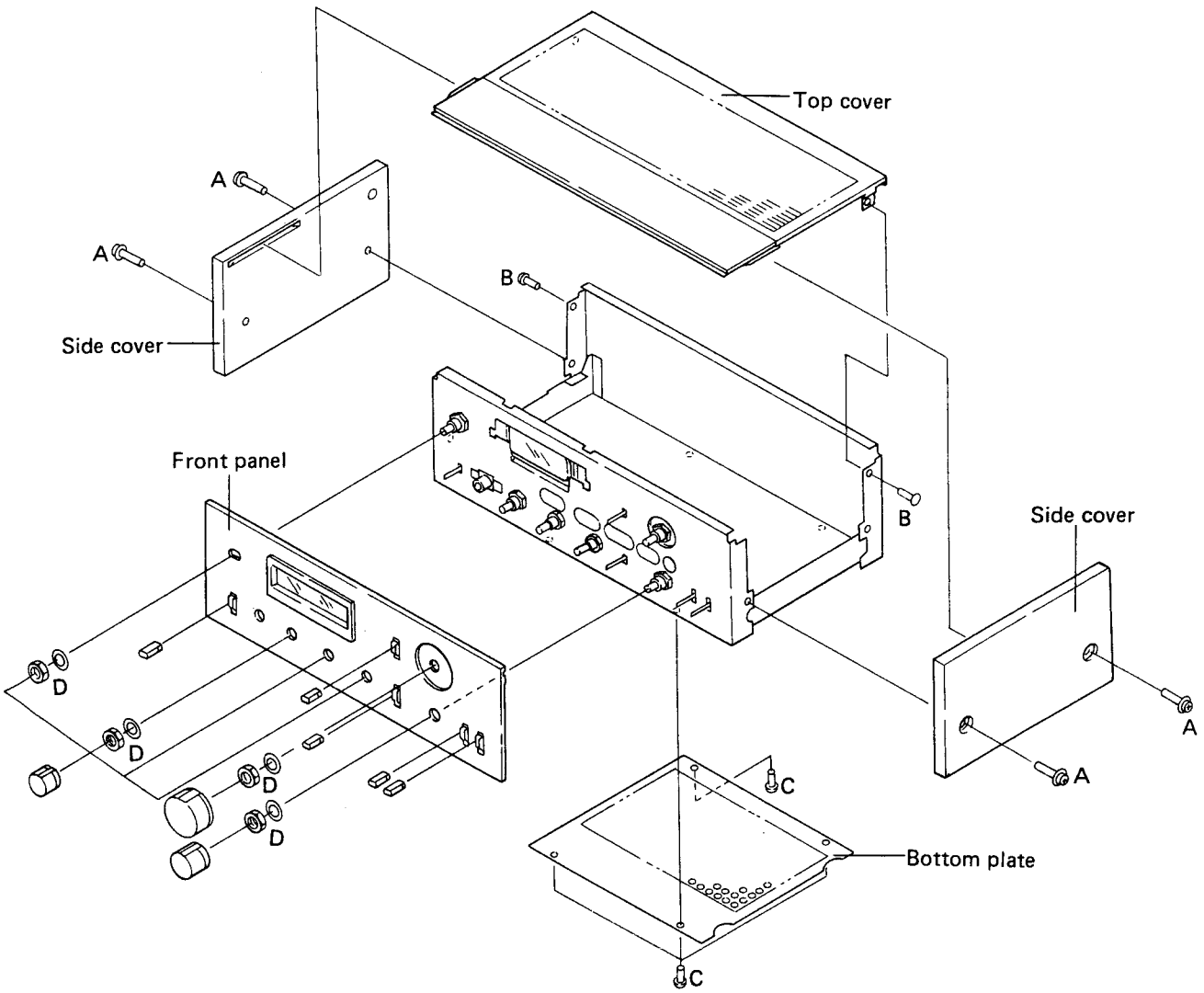
1. Remove the four screws (A), and remove the left and right-hand side covers.
2. Remove the two screws (B), and remove the top cover.

Bottom Plate

Remove the four screws (C).

Front Panel

Pull off all the knobs, and remove the four nuts (D).



6. ADJUSTMENTS

Idle Current Adjustment

1. Turn the VOLUME control down to minimum level, turn the power on, and wait about 10 minutes.
2. Connect a DC voltmeter to the TP terminals (L ch; TP_2 ⊕ and TP_1 ⊖, R ch; TP_3 ⊕ and TP_4 ⊖) of the GWK-128.
3. Check that the voltage between TP_1 and TP_2 (L ch) lies within the DC 4.4mV-35mV range. Then make a similar check for the R ch (between TP_3 and TP_4). If the voltage is less than 4.4mV, cut jumper A (L ch), and jumper B (R ch). If the voltage exceeds 35mV, check for circuit failure.

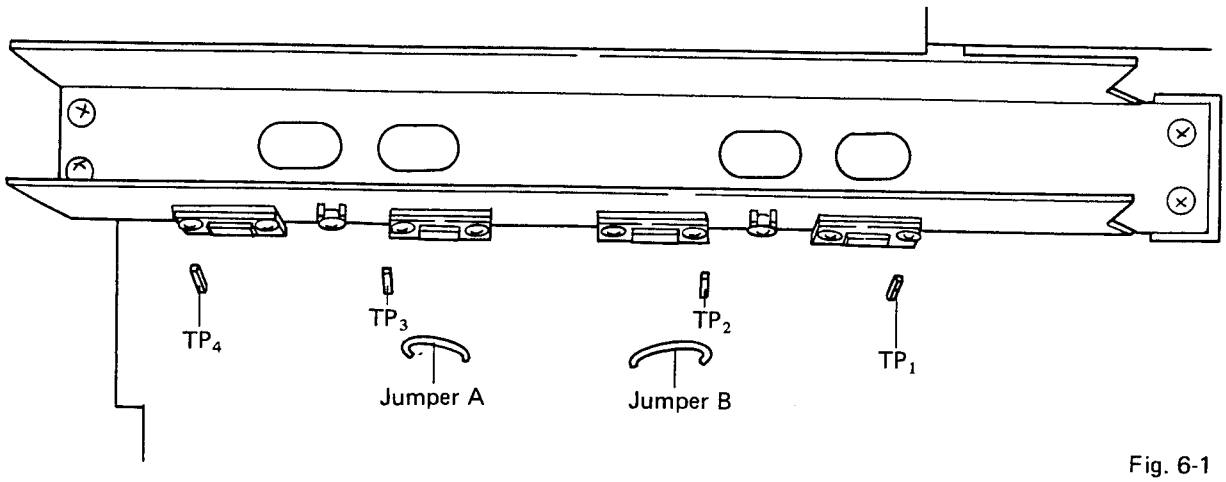


Fig. 6-1

Output Indicator Adjustment

1. Set the tone control to the flat position.
2. Set the SPEAKERS selector to the A position, and connect an 8Ω resistor and AC voltmeter to the speaker output terminals.
3. Set the FUNCTION switch to the AUX position, and apply a 1kHz, 150mV signal to the AUX input terminals.
4. Adjust the VOLUME control so that the voltage on the output terminals (SPEAKERS) reads 9V (AC).
5. Adjust VR_1 (L ch) and VR_2 (R ch) of the indicator assembly so that the output power indicator reads 10 watts.

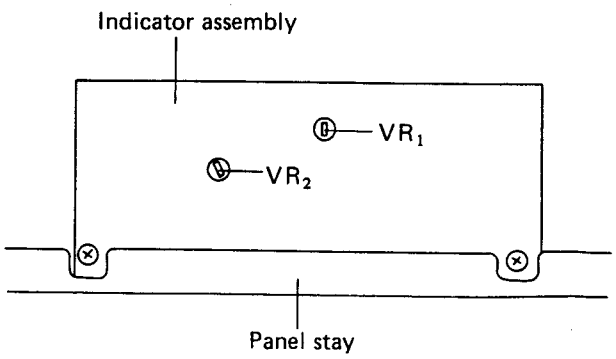
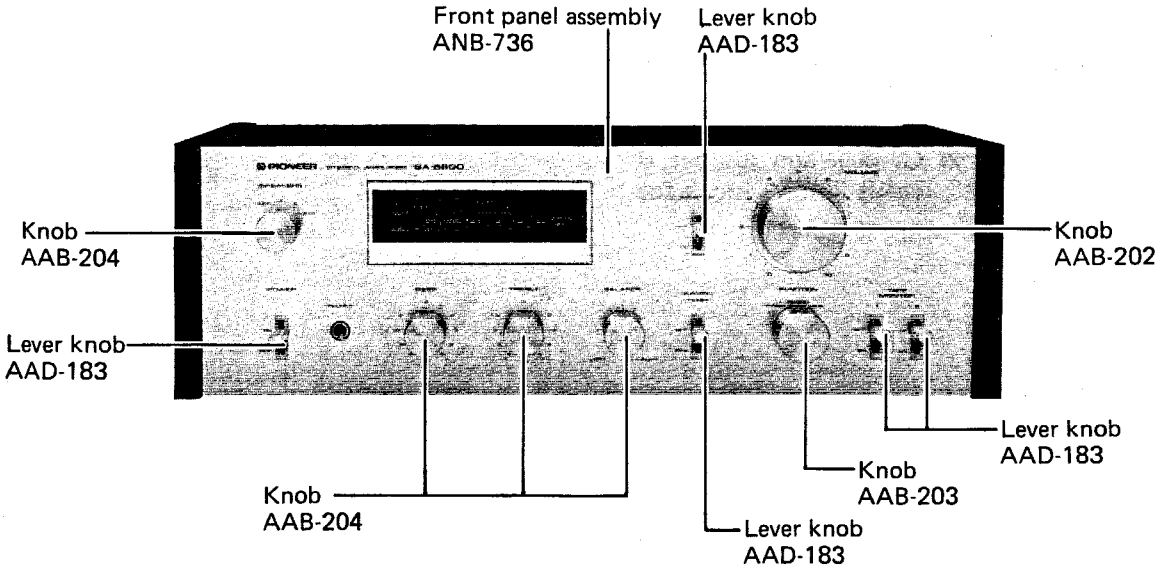


Fig. 6-2

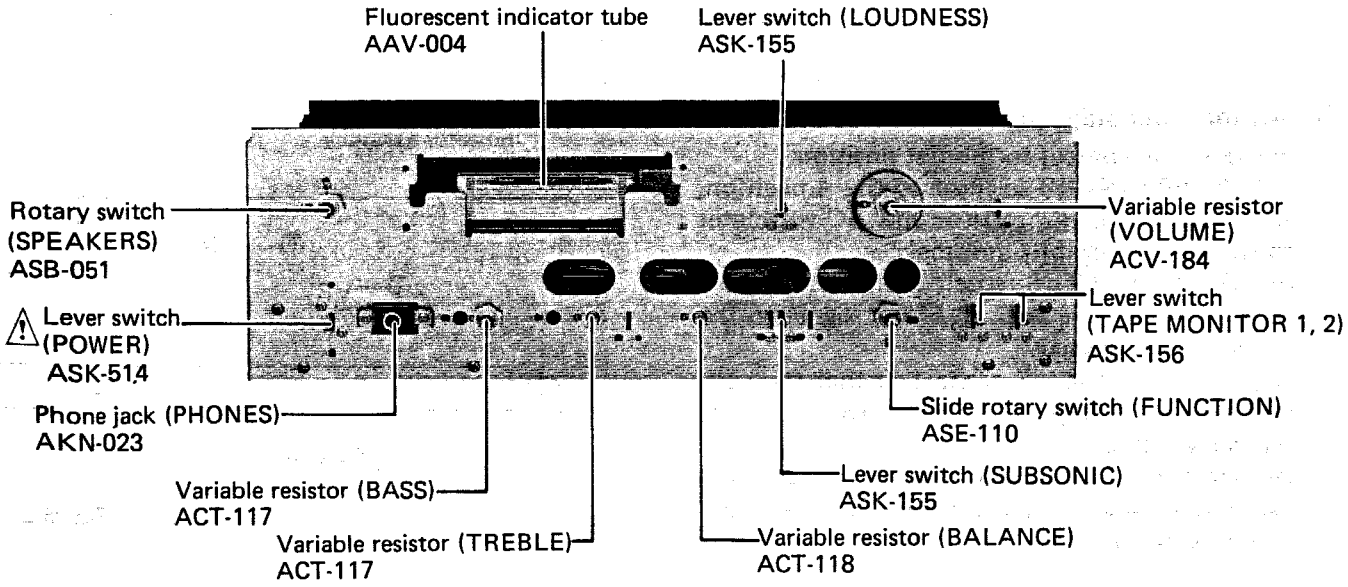
7. PARTS LOCATION

- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

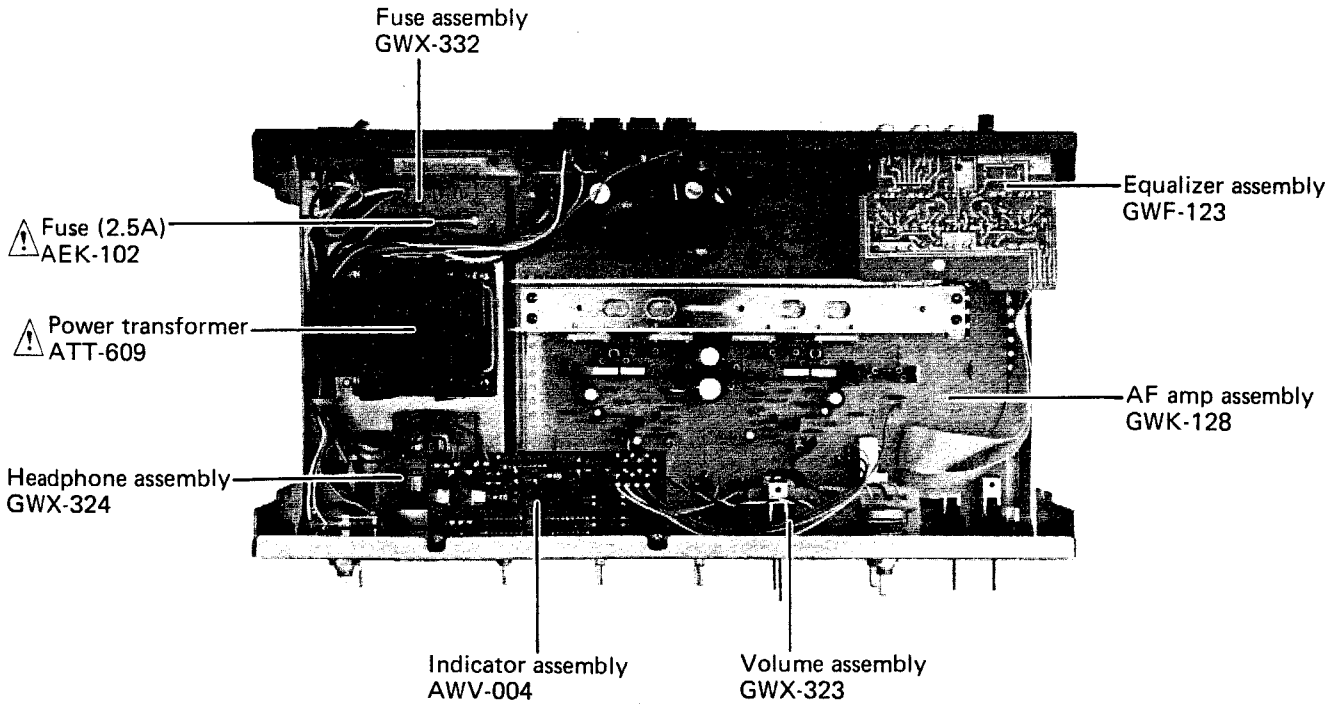
Front Panel View



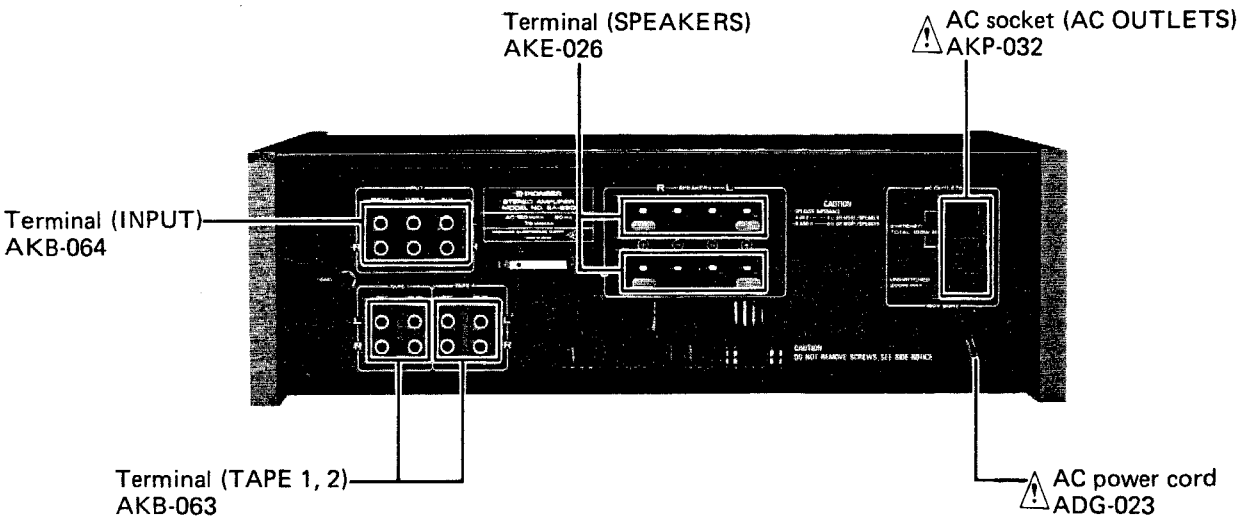
Front View with Panel Removed



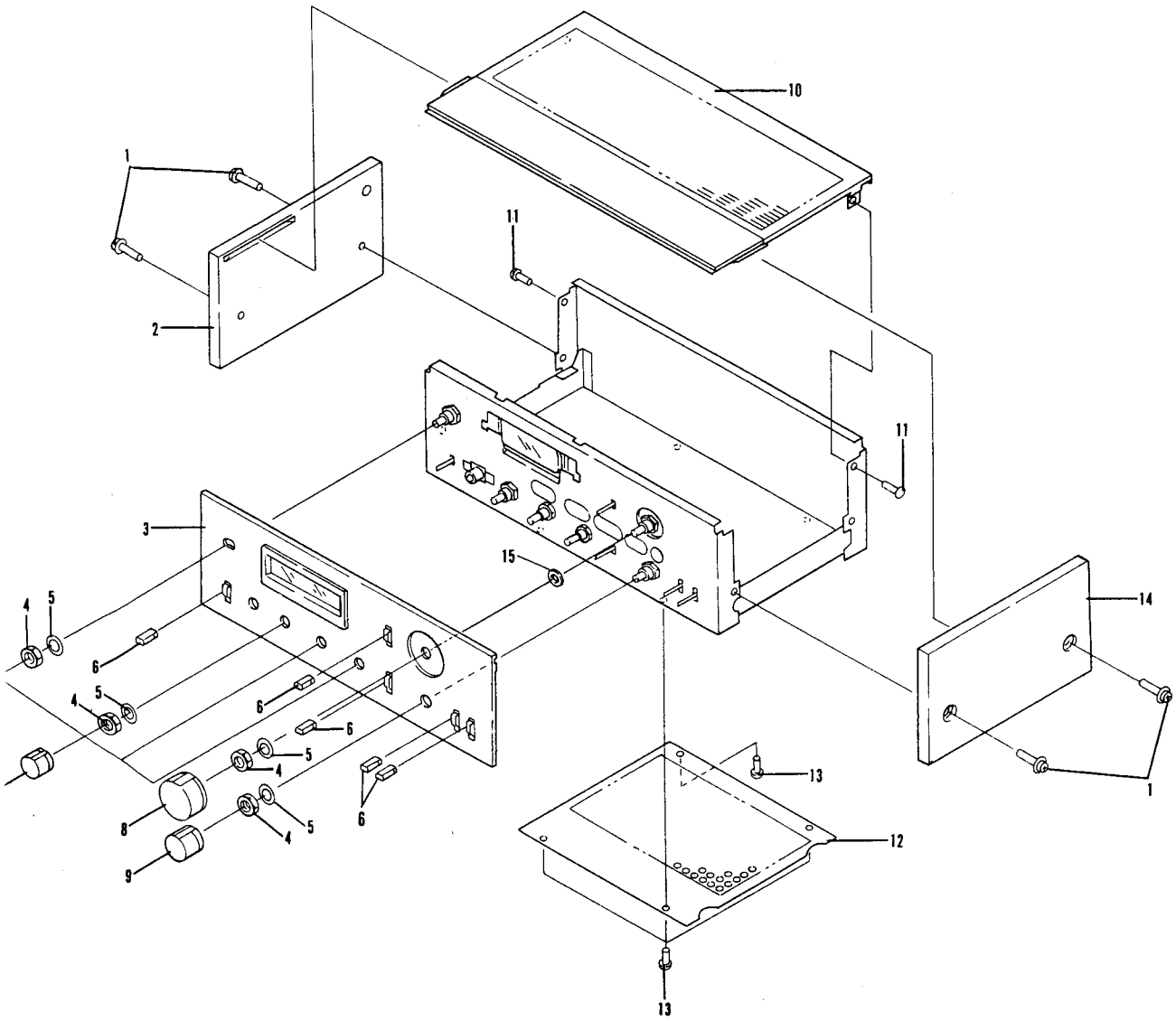
Top View



Rear Panel View



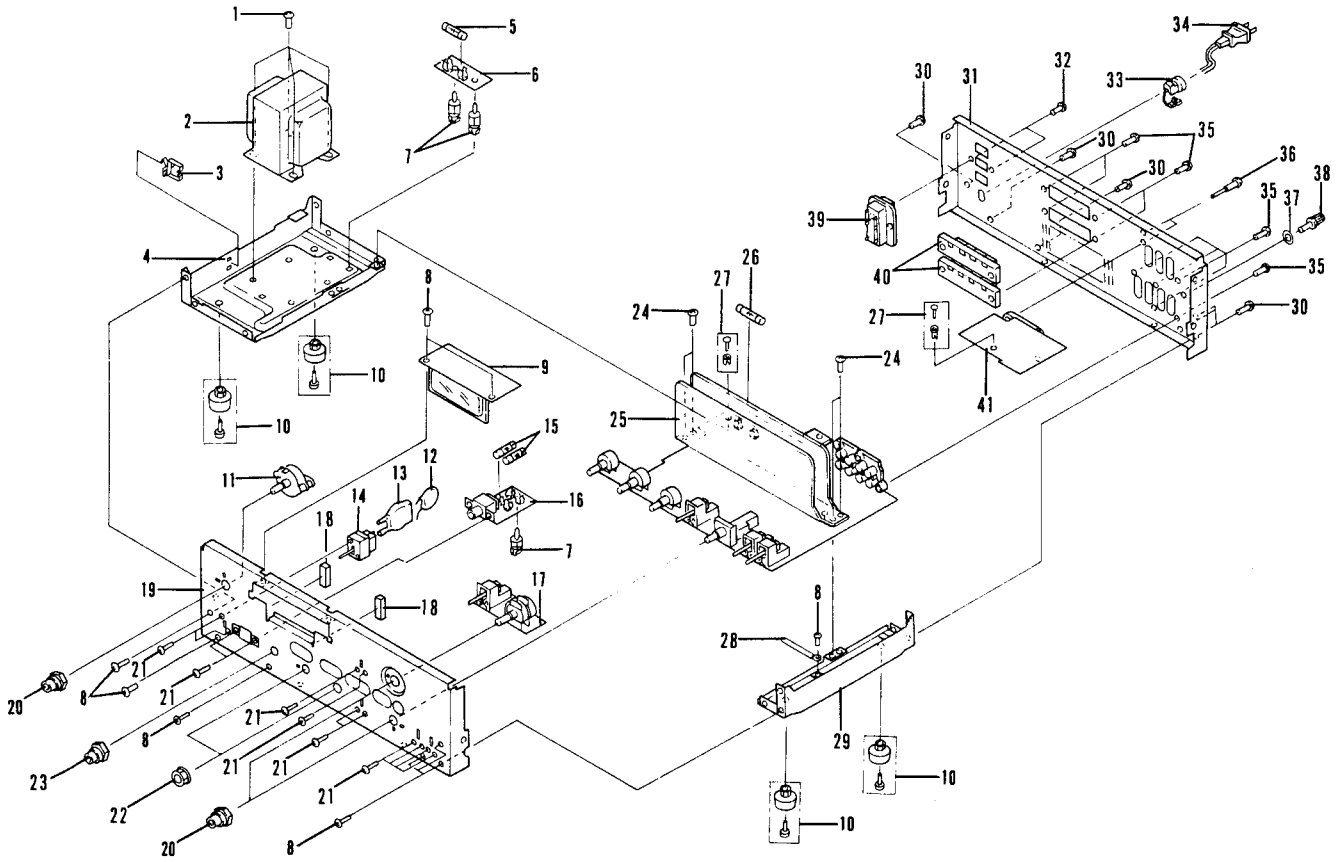
EXPLODED VIEWS



- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

No.	Part No.	Description
1.	ABA-209	Screw 4x15
2.	AMS-024	Side cover (L)
3.	ANB-736	Front panel assembly
4.	B71-004	Nut M9
5.	M45-086	Washer M9
6.	AAD-183	Lever knob
7.	AAB-204	Knob
8.	AAB-202	Knob
9.	AAB-203	Knob
10.	AMS-023	Top cover

Key No.	Part No.	Description
11.	ABA-204	Screw 3x6
12.		Bottom plate
13.	ABA-048	Screw 3x6
14.	AMS-025	Side cover (R)
15.	B22-017	Washer



Key No.	Part No.	Description
1.	ABA-069	Screw 4x8
⚠ 2.	ATT-609	Power transformer
3.		Wire saddle
4.		Frame
⚠ 5.	AEK-102	Fuse (2.5A)
6.	GWX-332	Fuse assembly
7.		P.C. Board holder
8.	ABA-048	Screw 3x6
9.	AWV-004	Indicator assembly
10.	AEC-570	Foot assembly
11.	ASB-051	Rotary switch (SPEAKERS)
⚠ 12.	ACG-001	Ceramic capacitor
⚠ 13.	AEC-294	Capacitor cover
⚠ 14.	ASK-514	Lever switch (POWER)
⚠ 15.	AEK-100	Fuse (4 A)
16.	GWX-324	Headphone assembly
17.	GWX-323	Volume assembly
18.		Cushion
19.		Panel stay
20.	ABN-050	Union nut

Key No.	Part No.	Description
21.	ABA-025	Screw 3x4
22.	ABN-031	Nut M7
23.	ABN-049	Union nut
24.	ABA-049	Screw 3x8
25.	GWK-128	AF amp assembly
⚠ 26.	AEK-106	Fuse (1A)
27.	AEC-525	Rivet
28.		Cord fixer
29.		Frame
30.	ABA-228	Screw 3x6
31.		Rear panel
32.	ABA-240	Screw 3x10
33.	AEC-327	Strain relief
⚠ 34.	ADG-023	AC power cord
35.	ABA-157	Screw 3x8
36.	ABA-115	Screw
37.	ABE-005	Washer
38.		Terminal (GND)
⚠ 39.	AKP-032	AC socket (AC OUTLETS)
40.	AKE-026	Terminal (SPEAKERS)
41.	GWF-123	Equalizer assembly

9. SCHEMATIC DIAGRAM, P.C. BOARD PATTERNS AND PARTS LIST

NOTES:

- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

  Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	*56 x 10¹*	*561*	*RD¼PS 5 6 1 J*
47kΩ	*47 x 10³*	*473*	*RD¼PS 4 7 3 J*
0.5Ω	*0R5*		*RN2H 0 R 5 K*
1Ω	*010*		*RSIP 0 1 0 K*

  Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	*562 x 10¹*	*5621*	*RN¼SR 5 6 2 1 F*

- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

9.1 MISCELLANEA

Miscellaneous Parts

SWITCHES

Part No.	Symbol & Description	
⚠ ASK-514	S1	Lever (POWER)
ASB-051	S2	Rotary (SPEAKERS)

FUSES

Part No.	Symbol & Description	
⚠ AEK-102	FU1	Fuse (2.5A)
⚠ AEK-100	FU2, FU3	Fuse (4A)
⚠ AEK-106	FU4	Fuse (1A)

P.C. BOARD ASSEMBLIES

Part No.	Description
AWV-004	Indicator assembly
GWK-128	AF amp assembly
GWF-123	Equalizer assembly
GWX-323	Volume assembly
GWX-324	Headphone assembly
GWX-332	Fuse assembly

OTHERS

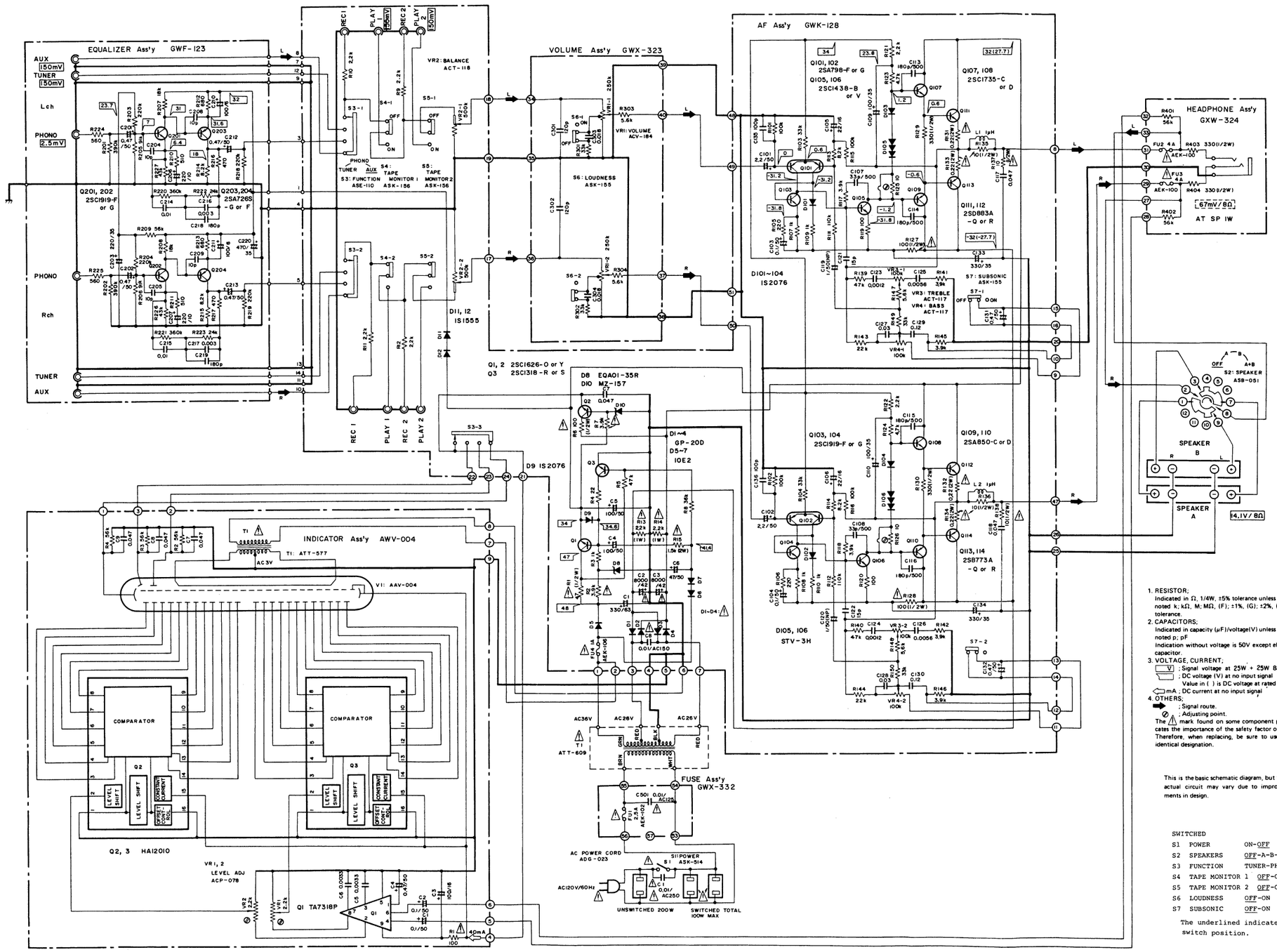
Part No.	Symbol & Description	
⚠ ATT-609	T1	Power transformer
⚠ ACG-001	C1	Ceramic capacitor
AKE-026		Terminal (SPEAKERS)
⚠ AKP-032		AC socket (AC OUTLETS)

List of Changed Parts for Factory Modification

List of changed parts information will be furnished whenever necessary and you are requested to amend parts number in this parts list.

Symbol	Part No.	Description

9.2 SCHEMATIC DIAGRAM



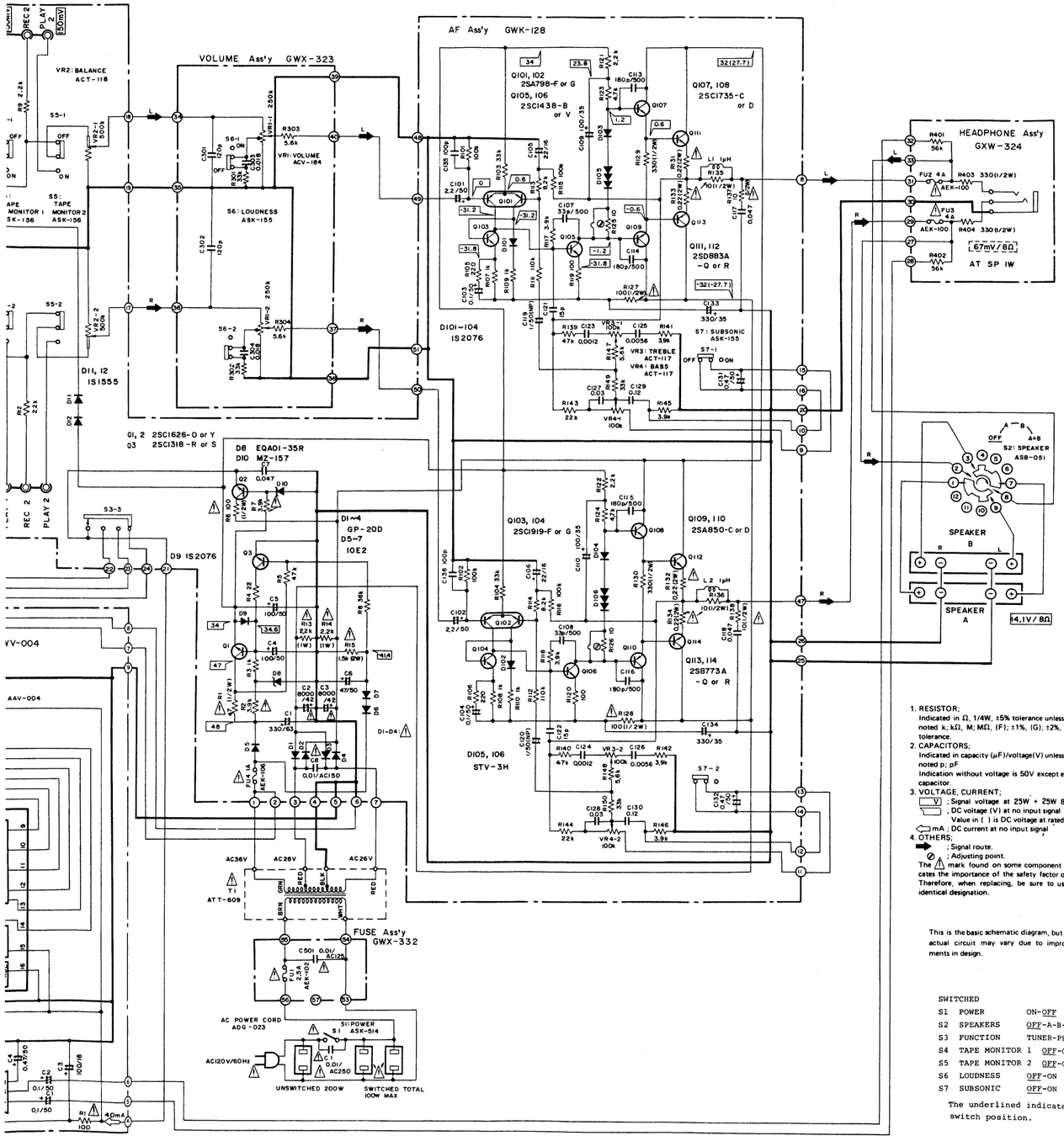
1. RESISTOR;
   Indicated in Ω, 1/4W, ±5% tolerance unless otherwise noted k; kΩ, M; MΩ, (F); ±1%, (G); ±2%, (K); ±10% tolerance.
2. CAPACITORS;
   Indicated in capacity (μF)/voltage(V) unless otherwise noted p; pF
   Indication without voltage is 50V except electrolytic capacitor.
3. VOLTAGE, CURRENT;
   (V) ; Signal voltage at 25W + 25W 8Ω output
   ; DC voltage (V) at no input signal
   Value in ( ) is DC voltage at rated power.
   ⇦mA ; DC current at no input signal
4. OTHERS;
   ➡ ; Signal route.
   ⊘ ; Adjusting point.
   The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHED

S1	POWER	ON-OFF
S2	SPEAKERS	OFF-A-B-A+B
S3	FUNCTION	TUNER-PHONO-AUX
S4	TAPE MONITOR 1	OFF-ON
S5	TAPE MONITOR 2	OFF-ON
S6	LOUDNESS	OFF-ON
S7	SUBSONIC	OFF-ON

The underlined indicates the switch position.



1. RESISTOR;
Indicated in Ω, 1/4W, ±5% tolerance unless otherwise noted k; kΩ, M; MΩ, (F); ±1%, (G); ±2%, (K); ±10% tolerance.
2. CAPACITORS;
Indicated in capacity (μF)/voltage(V) unless otherwise noted p; pF
Indication without voltage is 50V except electrolytic capacitor.
3. VOLTAGE, CURRENT;
V ; Signal voltage at 25W + 25W 8Ω output
; DC voltage (V) at no input signal
Value in ( ) is DC voltage at rated power.
mA ; DC current at no input signal
4. OTHERS;
; Signal route.
; Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHED

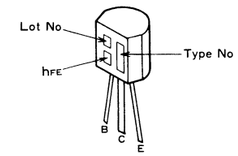
S1	POWER	ON-OFF
S2	SPEAKERS	OFF-A-B-A+B
S3	FUNCTION	TUNER-PHONO-AUX
S4	TAPE MONITOR 1	OFF-ON
S5	TAPE MONITOR 2	OFF-ON
S6	LOUDNESS	OFF-ON
S7	SUBSONIC	OFF-ON

The underlined indicates the switch position.

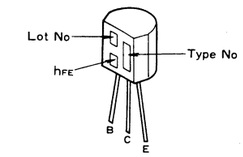
NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.

External Appearance of Transistors and ICs

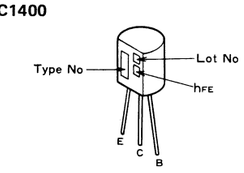
2SA850
2SC1735



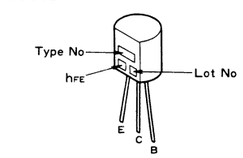
2SC1919



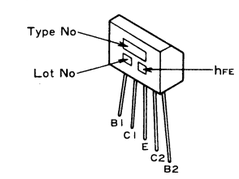
2SA750
2SC1400



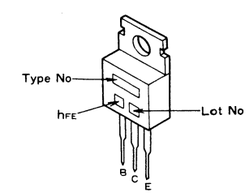
2SC1318



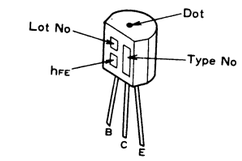
2SA798



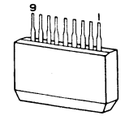
2SC1626



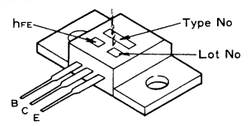
2SA726S



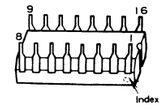
TA7318P



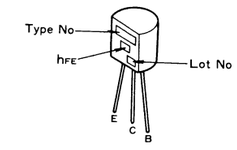
2SB773A
2SD883A



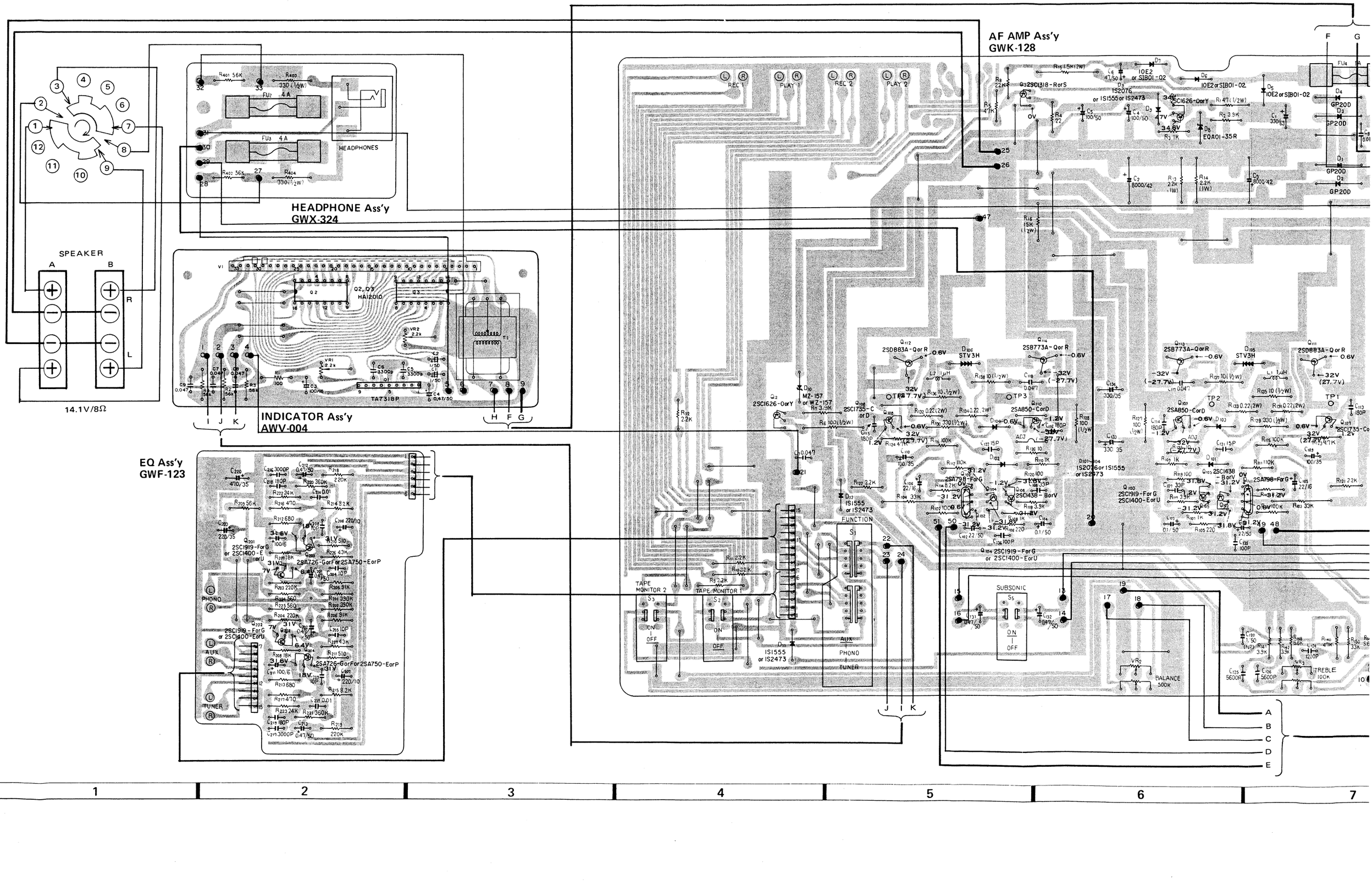
HA12010

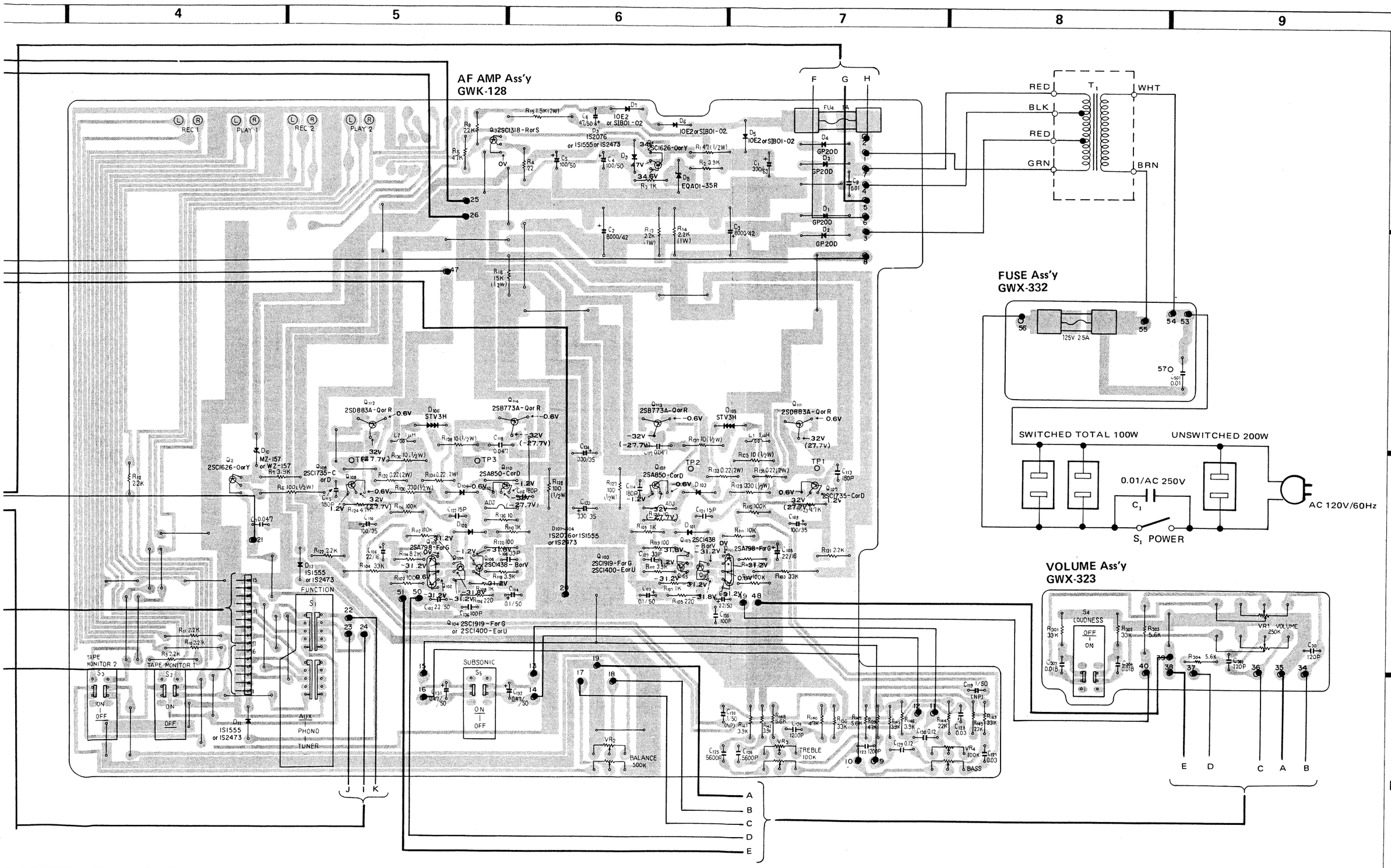


2SC1438



9.3 P.C. BOARDS CONNECTION DIAGRAM




AF AMP Ass'y
GWK-128
REC 1
PLAY 1
REC 2
PLAY 2
FUSE Ass'y
GWX-332
125V 2.5A
SWITCHED TOTAL 100W
UNSWITCHED 200W
0.01/AC 250V
AC 120V/60Hz
S1 POWER
RED
BLK
RED
GRN
WHT
BRN
VOLUME Ass'y
GWX-323
LOUDNESS
VOLUME
250K
TAPE MONITOR 2
TAPE MONITOR 1
FUNCTION
AUX
PHONO
TUNER
SUBSONIC
BALANCE
500K
TREBLE
100K
BASS
100K
ON
OFF
2SC1626-OorY
2SC1735-C or D
2SD883A-QorR
2SB773A-QorR
2SA850-CorD
2SA798-ForG
2SC1438-BorV
2SC1919-ForG or 2SC1400-EorU
MZ-157 or WZ-157
STV3H
EQA01-35R
GP20D
1S2076 or 1S1555 or 1S2473
1S2016 or 1S1555 or 1S2473
10E2 or S1B01-02
A
B
C
D
E
F
G
H
I
J
K

9.4 PARTS LIST OF P.C. BOARD ASSEMBLIES

Equalizer Assembly (GWF-123)

CAPACITORS

Part No.	Symbol & Description
CEANL R47M 50	C201, C202, C212, C213
CEA 221P 35	C203
CEA 221P 10	C206, C207
CEA 101P 6	C210, C211
CEA 471P 35	C220
CCDSL 100F 50	C204, C205, C208, C209
CCDSL 181K 50	C218, C219
CKDYA 302J 50	C216, C217
CQMA 103J 50	C214, C215

Note: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

RESISTORS

Part No.	Symbol & Description
RD¼PM □□□ JNL	R201–R206, R210, R211, R220, R221, R226, R227
RD¼PM □□□ J	R207–R209, R214–R219, R222–R225 R212, R213

SEMICONDUCTORS

Part No.	Symbol & Description
2SC1919 (2SC1400)	Q201, Q202
2SA726S (2SA750)	Q203, Q204

OTHER

Part No.	Symbol & Description
AKB-064	Terminal (INPUT)

AF Amp Assembly (GWK-128)

CAPACITORS

Part No.	Symbol & Description
CEA 331P 63	C1
⚠ ACH-203	C2, C3
CEA 101P 50	C4, C5
CEA 470P 50	C6
CEA 220P 16	C105, C106
CEA 101P 35	C109, C110
CEA 331P 35	C133, C134
CEANL R10M 50	C103, C104
CEANL R47M 50	C131, C132
CEANL 2R2M 50	C101, C102
CEANLNP 010M 50	C119, C120
⚠ ACG-004	C8
CCDSL 150K 50	C121, C122
CCDSL 330K 500	C107, C108
CCDSL 181K 50	C113–C116
CKDYF 473Z 50	C7, C117, C118
CCDSL 101K 50	C135, C136
CQMA 122J 50	C123, C124
CQMA 562J 50	C125, C126
CQMA 303J 50	C127, C128
CQMA 124J 50	C129, C130

Note: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

RESISTORS

Part No.	Symbol & Description
⚠ RD½PSF □□□ J	R1, R6, R127, R128, R135–R138
RD¼PM □□□ J	R2–R5, R8–R12, R101–R126, R139–R150
⚠ RD¼PSF □□□ J	R7
⚠ RS1P □□□ J	R13, R14
⚠ RS2P □□□ J	R15
RD½PS □□□ J	R16, R129, R130
⚠ ACN-039 (ACN-030)	R131–R134
ACT-118	VR2 Variable (BALANCE)
ACT-117	VR3, VR4 Variable (BASS, TREBLE)

SEMICONDUCTORS

Part No.	Symbol & Description
2SC1626	Q1, Q2
2SC1318	Q3
2SA798	Q101, Q102
2SC1919 (2SC1400)	Q103, Q104
2SC1438	Q105, Q106
*2SC1735-C (2SC1735-D)	Q107, Q108
*2SA850-C (2SA850-D)	Q109, Q110

*hfe of Q107 – Q110 should have the same value.

*2SD883A-Q (2SD883A-R)	Q111, Q112
*2SB773A-Q (2SB773A-R)	Q113, Q114

*hfe of Q111 – Q114 should have the same value.

⚠ GP-20D	D1–D4
10E2 (SIB01-02)	D5–D7
EQA01-35R	D8
1S2076 (1S1555) (1S2473)	D9, D101–D104
1S1555 (1S2473)	D11, D12
MZ-157 (WZ-157)	D10
STV3H-Y	D105, D106

SWITCHES

Part No.	Symbol & Description	
ASE-110 (ASE-101)	S1	Slide rotaly (FUNCTION)
ASK-156	S2, S3	Lever (TAPE MONITOR 1, 2)
ASK-155	S5	Lever (SUBSONIC)

OTHERS

Part No.	Symbol & Description
AKB-063	Terminal (TAPE)
AEC-288	Insulator wafer
AKH-008	Insulator spacer
ABA-187	Screw 2.5x8
ABA-066	Screw 3x8
ABE-052	Insulator washer
ABA-234	Screw 3x12
ABE-046	Washer M3

Indicator Assembly (AWV-004)

CAPACITORS

Part No.	Symbol & Description
CEANL 0R1M 50	C1, C2
CEA 101P 16	C3
CEA R47P 50	C4
CQMA 332K 50	C5, C6
CKDYF 473Z 50	C7–C9

Note: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

RESISTORS

Part No.	Symbol & Description
RD¼PMF □□□ J	R1
RD¼PM □□□ J	R2–R4
ACP-078	VR1, VR2

SEMICONDUCTORS

Part No.	Symbol & Description
TA7318P-A	Q1
HA12010	Q2, Q3

OTHERS

Part No.	Symbol & Description	
AAV-004	V1	Fluorescent indicator tube
⚠ ATT-577	T1	Heater transformer

Volume Assembly (GWX-323)

CAPACITORS

Part No.	Symbol & Description
CCDSL 121K 50	C301, C302
CQMA 183K 50	C303, C304

Note: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

RESISTORS

Part No.	Symbol & Description
RD¼PM □□□ J	R301–R304

OTHERS

Part No.	Symbol & Description	
ACV-184	VR1	Variable (VOLUME)
ASK-155	S4	Lever (LOUDNESS)

Headphone Assembly (GWX-324)

Note: When ordering resistors, convert the resistance value into code form, and then rewrite the part no. as before.

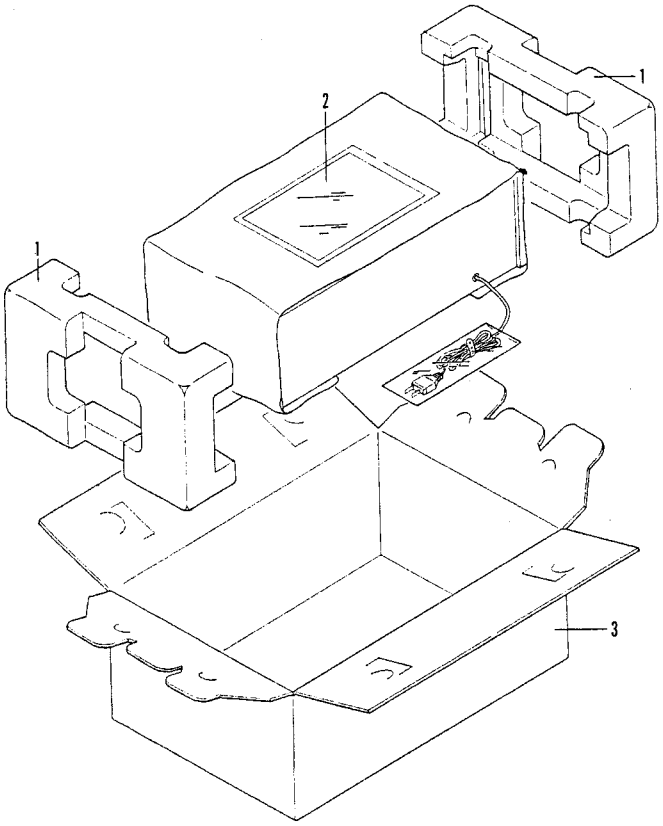
RESISTORS

Part No.	Description	
RD¼PS □□□ J	R401, R402	
RD½PS □□□ J	R403, R404	
AKN-023		Phones jack (PHONES)

Fuse Assembly (GWX-332)

Part No.	Symbol & Description	
ACG-017 (ACG-003)	C501	Ceramic capacitor

10. PACKING



Key No.	Part No.	Description
1.	AHA-188	Side pad
2.	ARB-325	Operating instructions
3.	AHD-693	Packing case

11. SUPPLEMENTS FOR MODEL SA-508/KU

Model SA-508/KU is the same as SA-5800/KU with exception of description in this supplements.

Contrast of Miscellaneous Parts

Symbol	Description	Part No.	
		SA-508/KU	SA-5800/KU
	Front panel assembly	ANB-759	ANB-736
	Bonnet cover	ANE-250	.....
	Top cover	.....	AMS-023
	Side cover (L)	.....	AMS-024
	Side cover (R)	.....	AMS-025
	Packing case	AHD-710	AHD-693
	Side pad	AHA-189	AHA-188
	Operating instructions	ARB-334	ARB-325

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PIONEER ELECTRONIC (EUROPE) N.V. Luithagen-Haven 9, 2030 Antwerp, Belgium
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